PHILIP MORRIS U. S. A.

INTER-OFFICE CORRESPONDENCE

RICHMOND, VIRGINIA

To: . Mr. J. L. Charles Date: October 20, 1981

From: . M. A. Manzelli

Subject: . PLANS AND OBJECTIVES FOR 1982 (CHARGE NUMBER: 1101)

The single objective of the Entomological Research Group is to reduce insect damage to stored and processed tobaccos.

Specific objectives and plans for the year 1982 are as follows:

OBJECTIVES

I. CIGARETTE BEETLE PHYSIOLOGICAL STUDIES

A. To continue the study of beetle growth and survival at various combinations of temperature and R. H.

B. To continue to evaluate feeding inhibitors, when candidate compounds are available.

C. To continue to evaluate the synthetic sex pheromone, serricornin, in the field and to initiate tests in the primary and manufacturing areas under low population densities. Additional laboratory studies will also be made.

D. The adult beetle light attractant study will be continued in the laboratory utilizing prism projected rays.

E. The adult beetle flight and response behaviors will be studied further.

F. To continue the development of a screening technique for the inhibitors of the larval midgut symbiont.

G. The use of NALED, an organic phosphate pesticide (of low toxicity) will be studied as a sex pheromone beetle trap toxicant.

II. KABAT® USAGE

A. To monitor the Maury Street Chesapeake and Cabarrus warehouses storing only KABAT® treated tobacco. This will be done by checking the beetle trap counts.

B. To continue to assist the stemmeries with their analytical problems.

C. To continue the 5 ppm KABAT® stemmery/warehouse test through November, 1982.

III. CONSULTING AND TECHNICAL SERVICES TO AREAS OUTSIDE OF R & D

A. On a request basis, assistance will be given to areas experiencing insect control problems.

B. All long range monitoring programs involving steam or steam-vacuum cycle efficacy checks will be continued.

PLANS AND TIME ALLOCATION

I. CIGARETTE BEETLE PHYSIOLOGICAL STUDIES

We need more knowledge of the cigarette beetle's physiology and of its response to both chemical and physical stimuli in order to devise improved methods for its control. These studies will require a maximum of 11.5 man-days a week.

II. KABAT® USAGE

The support given to accumulating efficacy data on the 10 ppm methoprene treatments will be greatly decreased this coming year. However, support will be continued in developing and recording efficacy data from the 5 ppm methoprene applications. These studies will require 3.5 man-days per week.

III. CONSULTING AND TECHNICAL SERVICES TO AREAS OUTSIDE R & D

As in the past, these services will continue to consist of on-site inspections for either existing or potential infestations of stored or processed tobaccos; of providing insects and counts for insect control tests of various types; and in providing updated information on state and federal regulations pertaining to the use of pesticides. This service will require 5.0 man-days per week.

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M. L. Mansell

ALLOCATION OF MAN-DAYS PER WEEK

(TOTAL = 20 MAN-DAYS)

ACTIVITY	M. F. MINOR	J. S. LONG	R. M. LEHMAN	M. A. MANZELLI	TOTALS
Cigarette Beetle Physiological Studies	3.5	3.5	3.5	1.0	11.5
KABAT® Usage	1.0	0.5	1.0	1.0	3.5
Consulting and Technical Services to PM Areas	0.5	1.0	0.5	3.0	5.0
TOTAL MAN-DAYS	5.0	5.0	5.0	5.0	20.0